FinTrack+
Personal Finance management

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❖ Agenda

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❖ Problem Statement

Managing personal finances is an increasingly challenging task, especially in the absence of effective digital tools that enable individuals to organize their income and expenses within a clear and comprehensive analytical framework.

➤The most common issues:

✓Lack of transparency in tracking monthly expenses

✓Difficulty in monitoring budget adherence

✓ Lack of a standardized system that integrates income, expenses, and periodic financial reports
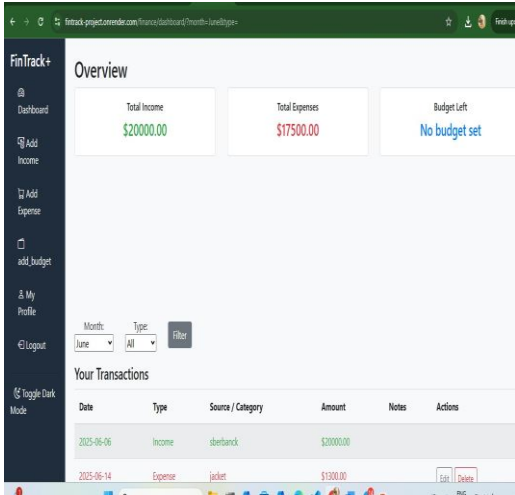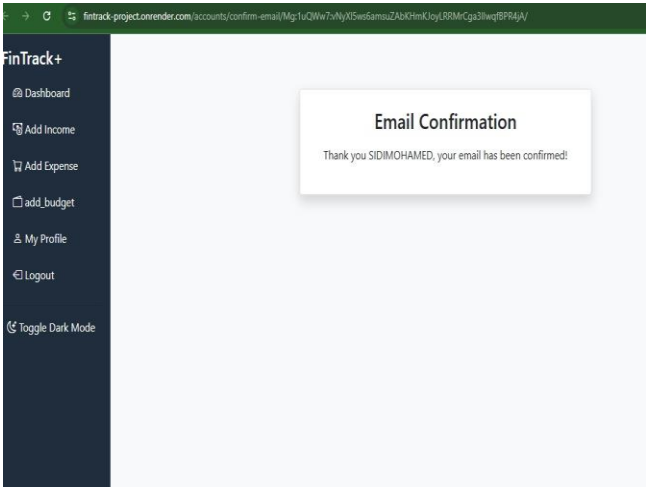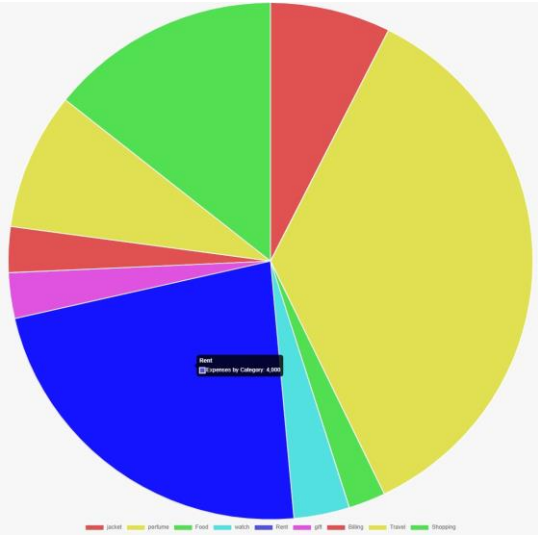
❖ Basic Functionality Overview

FinTrack+ provides a set of integrated functions designed to meet the needs of individuals in managing their personal finances effectively and in an organized manner. Through an intuitive interface, the app enables users to take full control of their income and expenses, monitor their budgets, and intelligently analyze their spending patterns. These functions seek to simplify daily financial operations, improve financial awareness, and support informed financial decision-making.

- The following are the most important functions of the app, which form the backbone of the user experience and efficiently achieve personal financial management goals.

✓**Add Income** : Add multiple sources of income and track them monthly with the ability to edit and delete.

✓**Add Expense** : Categorize daily expenses by category (food, clothing, transportation...) and analyze them monthly.

✓ **Budgeting:** Set a maximum monthly expense limit and get alerts when the limit is approaching or exceeded.

✓ **Dynamic dashboard:** Graphical display of financial data (balance, income, expenses, budget utilization ratio) in an interactive way

Your Transactions

Date	Type	Source / Category	Amount	Notes	Actions
2025-06-06	Income	sberbanck	$20000.00		
2025-06-14	Expense	jacket	$1300.00		Edit Delete
2025-06-11	Expense	perfume	$1200.00		Edit Delete
2025-06-04	Expense	Food	$400.00		Edit Delete
2025-06-12	Expense	perfume	$5000.00		Edit Delete
2025-06-06	Expense	watch	$600.00		Edit Delete
2025-06-01	Expense	Rent	$4000.00		Edit Delete
2025-06-12	Expense	gift	$500.00		Edit Delete
2025-06-05	Expense	Billing	$500.00		Edit Delete
2025-06-09	Expense	Travel	$1500.00		Edit Delete

❖ Screenshot

❖ Architecture and Tools Used

- FinTrack+ is developed according to the Multi-tier Architecture model, which separates the business logic from the user interface and the database. The system consists of:

✓ **Frontend Layer:** The interfaces are designed using HTML, CSS, and Bootstrap RTL to support Arabic, while using the Crispy Forms library to optimize the user experience.

✓ **Application Layer:** It is based on the Django framework, which provides an MVC (Model-View-Controller) architecture. This layer implements transactional logic (such as adding income/expenses, checking the budget, generating reports...).

✓ **Data Layer:** The database uses SQLite during development and PostgreSQL in the production environment via Render.Data is managed using Django's built-in ORM to provide security and efficiency in data queries.

❖ Architecture and Tools Used

Tool / Technology	Purpose / Usage
Django	Backend development, user authentication, database management
Bootstrap RTL	Responsive and RTL-friendly user interface design (Arabic support)
SQLite / PostgreSQL	Data storage and database engine
Django Allauth	User authentication and email verification
Cloudinary	Image upload and cloud-based media storage
Render	Hosting and deploying the application online
Pandas / xhtml2pdf	Generating financial reports in PDF and CSV formats
Chart.js	Displaying interactive and dynamic financial charts
Git + GitHub	Version control and collaborative code management

❖ Summary and reflections

- FinTrack+ is a hands-on experience in developing a customized web application for personal finance management, combining the core functions of income and expense tracking, budget planning, and report generation in an interactive bilingual environment that is easy to use and responsive.The project demonstrated a strong ability to integrate back-end programming concepts using Django with flexible front-end interfaces via Bootstrap RTL, while employing modern technologies such as Cloudinary and Render to ensure performance and smooth deployment. It also helped solidify the principles of clean design, digital security, and database integration.This experience has sharpened my skills in building Full-Stack applications and developing a systematic approach to solving issues, preparing me to work on larger and more complex software projects in the future

Thank you for your interest!

I hope this presentation has illustrated the importance of the app and its effectiveness in everyday life.

The project was passionately developed under the supervision of: Dr. **SAIF M.A.**

Prepared and developed by : SIDI MOHAMED

For more information or to view the code:
https://github.com/Sidimohamedlemin/fintrack-project